

## SUMMER 2009 ISLE ROYALE COURSES

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### Ecology of Isle Royale • ED 5560 • June 14-20, 2009



This one-week, field-based camping experience in Isle Royale National Park prepares teachers to help students understand ecological concepts, wilderness ethics, and cultural history through direct experience, observation, and discussion. The interactive course is designed to provide elementary, middle, and high school educators with standards-based professional development and time to plan, discuss, and reflect on their teaching. Participants work in groups, learning and sharing their teaching experience and ideas with other educators. The course includes five nights of wilderness camping and backpacking, visits with researchers, and explorations of cultural sites and a variety of terrestrial and aquatic habitats, and incorporates the latest research in the park. Middle

school and high school educators with extensive Isle Royale experience lead this course, and groups will be divided by grade level taught; elementary to middle school and middle school to high school. The course begins and ends in Copper Harbor, MI.

Isle Royale is a unique wilderness ecosystem, isolated by the extreme influences of Lake Superior, and well known for the world's longest-running predator-prey study of wolves and moose. A rich history of research and an isolated setting make Isle Royale an ideal location for studying natural and human-caused change with interdisciplinary applications to math, sciences, writing, and social studies. This course culminates in the creation of lesson plans applying your experiences on Isle Royale to classroom teaching, to be submitted after completion of the trip.

**Cost:** \$800 resident/non-resident per participant, this covers \*Michigan Tech tuition, course materials, transportation from Copper Harbor, MI to Isle Royale, six days of food, and some camping equipment. Limited to 9 participants.

**Credit:** 3 graduate credits through Michigan Technological University's Cognitive and Learning Sciences

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### Isle Royale Sea Kayaking • ED 5630 • June 21 – 27, 2009



Come to Isle Royale and learn to Sea Kayak! Spend seven days learning to kayak in tandem and single kayaks with an American Canoe Association certified kayak instructor. Teachers will continue to build off the skills learned in ED 5560 Isle Royale. As you tour the Archipelago's beautiful rugged coastline you will be honing your kayak skills and upon completion of the course all participants will earn ACA Open water coastal kayaking certificates. Topics include safety, kayak nomenclature, paddling skills, rescues skills, navigation, weather, and trip planning. This will be an expedition style course where the learning happens as you travel from camp to camp practicing Leave No Trace Ethics. The camping is primitive and in a remote setting, but the required wilderness

skills are included. Woven between the kayak instruction and camping skills, this course will delve into the depths of the Great Lakes: science, cultural issues, sample collection, and analysis using technology applicable to the classroom, legislation, and economics. During the trip we will meet with several park employees who will share their knowledge and research of this isolated island wilderness.

This interactive course is designed to provide K-12 educators with standards-based professional development and time to plan, discuss, and reflect on their teaching. Participants work in groups, learning and sharing their teaching experience and ideas with other educators. A final project is the creation of lesson plans applying your experiences on Isle Royale, to be submitted after completion of the trip. Educators with extensive Isle Royale experience lead this course. The course begins in Houghton, MI.

**Cost:** \$800 resident/non-resident per participant, this covers \*Michigan Tech tuition, course materials, transportation from Copper Harbor, MI to Isle Royale, six days of food, and some camping equipment. Prerequisite: ED 5560, or permission of instructor. Limited to 9 participants.

**Credit:** 3 graduate credits through Michigan Technological University's Cognitive and Learning Sciences

\* A departmental stipend helps to reduce official MTU tuition (2008/09 Official MTU tuition per credit for Applied Science Education Graduate Res/Non-Resident \$391).

# ISLE ROYALE COURSE APPLICATION

Please select course.

\_\_\_\_\_ Ecology of Isle Royale • ED 5560 • June 14–20, 2009 (limited to 9 participants)

\_\_\_\_\_ Isle Royale Sea Kayaking • ED 5630 • June 21-27, 2009 (limited to 9 participants)

Please type or print in ink. Duplicate as needed.

Name \_\_\_\_\_  
First Middle Last

Home address \_\_\_\_\_  
Street City State ZIP

Date of birth \_\_\_\_\_ Social Security or MTU M Number \_\_\_\_\_

Work phone \_\_\_\_\_ Home phone \_\_\_\_\_

Work Fax \_\_\_\_\_ Email \_\_\_\_\_

Home Email \_\_\_\_\_

School name \_\_\_\_\_

School address \_\_\_\_\_  
Street City State ZIP

Current subject areas taught \_\_\_\_\_

Grades taught \_\_\_\_\_

School District \_\_\_\_\_

I agree to all of the following to participate in the Isle Royale Summer 2008 Institutes:

- 1) Read and respond to all preparatory materials and communications prior to the institute.
- 2) Consent to the release of my name, address, and email address to other participants in the institute.
- 3) Fully participate in each day of the institute.
- 4) Meet the requirements of the syllabus for the institute.
- 5) Consent to posting my lesson plans submitted for this course on Michigan Tech websites.
- 6) Consent to the release of my photograph for publications.

Signature \_\_\_\_\_ Date \_\_\_\_\_

Return your completed application by **April 1, 2009** to:

Lori Witting

Teacher Professional Development Coordinator

Cognitive and Learning Sciences/MTU

Academic Office Building

1400 Townsend Drive

Houghton, MI 49931-1295

Phone: 906/487-2263

Fax: 906/487-2468

Email: [lori@mtu.edu](mailto:lori@mtu.edu)

Applicants will be notified of selection by **April 15, 2009**. Upon notification of selection, participants will be provided with information regarding registering for Michigan Tech Graduate credit and course payment.